

## Inauguration timetable

October 7, 1966
10:00 am Procession of Faculty and delegates starts.
10:18 Procession enters Rockwell Cage.
10:30 Chief marshal opens ceremony.
10:31 Invocation by the Rev. Theodore Ferris.
10:45 Dr. Killian introduces Governor Volpe.
President Pusey of Harvard for American universities.
Pierre Aigrain for foreign universities.
Theodore Mangeldorf for MIT alumni.
Frank A. March for MIT students.
Professor Elting Morrison for MIT Faculty.
Music.
11:21 Investiture of President Johnson.
11:35 President Johnson begins address.
12:05 pm National Anthem.
12:08 Recessional march completed.
12:22 Luncheon for delegates in Du Pont Gymnasium.
1:15 Toast to President Johnson.
2:15 Reception for delegates in lobby of Kresge Auditorium.
2:30-3:30 Reception for delegates in lobby of Kresge Auditorium.

# Johnson assumes presidency today

Presidents of 57 US universities and colleges and the heads of 194 US and 37 foreign universities six foreign institutions of higher learning will be among official delegations to march at the inauguration of Howard W. Johnson as the twelfth president of MIT today.

4,000 to attend

More than 4,000 persons will attend the proceedings in MIT's Rockwell Cage beginning at 10 am. The solemn but colorful academic procession — composed of faculty, students, alumni, MIT corporation members, ceremonial principals and, by custom, official delegates from sister universities, colleges and learned societies — will enter the Cage at 10:18 am. The formal ceremony of inauguration will start at 10:30 am.

Delegates to wear regalia

Delegates will wear the academic regalia — robes, hoods, head pieces and ornaments—that distinguish their individual institutions. Most academic costumes, some rich in color and spectacle, date back in style and design to scholarly traditions that began with the Middle Ages.

Also in keeping with academic protocol, the official delegates, with two principle exceptions, will march in one section of the procession in an order that cor-

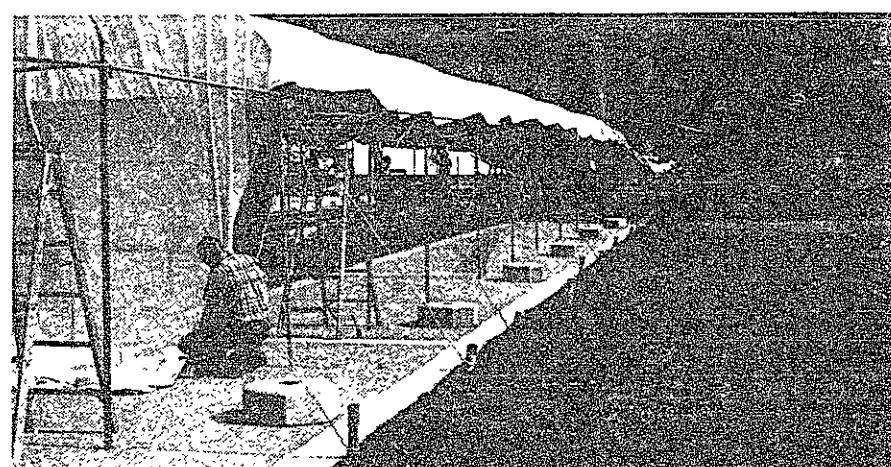


Photo by Art Kalotkin

Workman hustle to complete architecture in time for today's inauguration of Howard Wesley Johnson at MIT's twelfth President. Construction was begun Monday of this week.

responds to the year their institution was founded, the oldest coming first.

The two exceptions are Dr. Pierre Raoul Roger Aigrain, professor of physics at the University of Paris (Sorbonne), and President Nathan Marsh Pusey of Harvard University. The University of Paris, started in 1253, is the oldest of all universities to be represented at the inauguration.

(Please turn to Page 2)

## Unrestricted grant

### Tech gets quarter million from Standard Oil Co.

Standard Oil (Indiana) Foundation, Inc., has made a \$250,000 grant to MIT which the Institute will use to strengthen teaching and research in chemistry.

Announcement of the grant was made by Dr. James R. Killian, Jr., chairman of the MIT Corporation, and John E. Swearingen, chairman of Standard Oil (Indiana) Foundation. The grant will be received over a period of five years.

Commenting on the grant, Dr. Killian said: "MIT has had a long-standing association with Standard Oil (Indiana) Foundation and its sponsor, Standard Oil Company (Indiana). The decision of the Foundation to increase its level of support of the Institute is both timely and generous. We deeply appreciate the Foundation's recognition of MIT's need for further funds. The unrestricted nature of the grant is particularly gratifying, for it enables MIT to apply the funds to help finance a major program cur-

rently under way to strengthen research and teaching in the field of chemistry."

No restriction on funds  
Swearingen said: "The Foundation is placing no restriction on the use of the funds granted to MIT, in keeping with our policy of support of higher education through unrestricted grants to leading universities. In recognition of the Institute's general excellence, its contributions to science and technology, and the quality of its graduate education, we are pleased to provide this increased support. In doing so, we are happy that the Institute is applying the Foundation's grant to the chemistry program, which speaks directly to the national need to strengthen research and teaching in the field of chemistry in the universities."

## Plans announced

Joining in the announcement,

(Please turn to Page 3)

## Harvard dean speaks

### Split personality of science discussed

By Karen Wattel

"The Split Personality of Science" was the topic spoken on at an open meeting of the Society for Social Responsibility in Science Wednesday afternoon by Don K. Price.

Dr. Price is Dean of the Har-

vard School of Public Administration and President-Elect of the American Association for the Advancement of Science (AAAS). He is the author of *The Scientific Estate*, which discusses the interaction of science and government.

#### Scientist's role

His speech to the approximately two dozen people in the East Lounge of the Stratton Student Center was concerned with the role of the scientist in modern society. Some of the main questions he posed were how heavily American science is tied to the practical; what the scientist's responsibility is to society for his work; what the status of science is in today's society; and whether science is better practiced in isolation.

#### Science-watcher

Price spoke not so much from the "role of fellow scientist" as from the position as science watcher and observer of over twenty years. He described himself as a social scientist rather than a natural scientist, but one



Dr. Donald K. Price, Dean of the Harvard School of Public Administration and President-Elect of the American Association for the Advancement of Science, spoke on "The Split Personality of Science" in the East Lounge of Stratton Center Wednesday.

who has worked with the latter group over the years.

He described science as an entity of Janus status. One face is

(Please turn to Page 5)

## The Tech

Vol. 86, No. 35

Cambridge, Massachusetts, Friday, October 7, 1966

Five Cents

## Recall 11 presidential histories

By Steve Carhart

As President Howard Johnson officially becomes the twelfth President of MIT, he becomes the latest in the succession of distinguished individuals who have overseen the development of our nation's foremost technical school.

It was William Barton Rogers, whose name Tech students read overhead as they enter 77 Mass. Ave. who founded MIT and became the Institute's first President. A geologist before he devoted his efforts to the development of MIT, President Rogers was described by *The Tech* of December 28, 1881 in a manner calculated to gain the good will of the Institute for the fledgling publication: "As a speaker and lecturer Prof. Rogers stands almost unmatched. Earnest in manner, profound in wisdom, clear and concise in thought..."

Although he resigned as president in 1870, after eight years in office and was succeeded by John Daniel Runkle, President Rogers was re-elected President in 1879 and served in that capacity until his death in 1881.

President Rogers' hand-picked successor was Francis Amasa Walker, for whom Walker Memorial is named. Until his death in 1897, President Walker built the Institute with the philosophy that "The Institute is a place for men to work, and not for boys to play," an ideal that most Tech students will agree has outlived its originator. Under President Walker, the enrollment of the Institute rose from three hundred to twelve hundred hard-working men.

President James Mason Crafts had a hard act to follow when he assumed the reins of the Institute in 1897. Apparently the Presi-

dency did not agree with him as well as did his professorship, and he resigned in 1900.

Following President Crafts was President Henry Smith Pritchett, who came to Tech after totally reorganizing the United States Coast and Geodetic Survey in the face of political difficulties. As he came to the Institute, he possessed two of the most important qualifications one would expect in an MIT President: a knowledge of science and administrative ability. Only forty-three when he assumed office, President Pritchett attempted to broaden the scope of the MIT education (something that needed broadening in 1900) and encouraged (of all things) athletics. Clearly, the working men were to be allowed to play at least once in a while.

In 1905 President Pritchett announced his resignation in order to devote his full time to his duties as president of the Board of Trustees of the Carnegie Foundation. No successor was found until Professor Richard C. Mac-

(Please turn to Page 3)

## Johnson holds reception, dance for undergraduates Saturday

Fun, food, and music—all will be there, and all will be free at the reception and dance given by President Johnson for all undergraduate students in the Student Center and Armory tomorrow from 9 pm to midnight.

No undergraduate has an excuse to miss this one. This is far from a couples-only affair, though; provisions have been made for a large stag turnout. Large amounts of sandwiches, cookies, and punch have been ordered to accommodate the throng.

The music the guests hear will depend upon where they are. They will be able to choose from Lester Lanin and his orchestra in the Armory, the Boston Brass in the Sala de Puerto Rico, and a small jazz combo in Lobdell. No special expenses for clothing are necessary, either—men may wear dark suits and women may wear party dresses.

Of all the nights in the term, this looks like one of the last on which anyone would want to study.

# International dignitaries attend ceremonies

(Continued from Page 1)

He holds doctoral degrees from Carnegie Institute of Technology and the University of Paris, is a leading European authority on the physics and electronic properties of semiconductor materials, and has been a frequent visiting professor in MIT's Department of Electrical Engineering.

#### Delegates not strangers

Many official delegates have had previous MIT connections — as students, lecturers, visiting professors, or faculty members. President H. Guyford Stever of Carnegie Institute of Technology and President Albert Bush-Brown of the Rhode Island School of Design were MIT professors before accepting their present posts. Dr. Terris Moore, former president of the University of Alaska, also was on the MIT faculty when chosen for that position.

The official delegates will march two abreast and their section of the procession will be led by two representatives from the next oldest school present for the ceremonies — the University of Heidelberg, Germany, started in 1386. They are Professor Albrecht Dold from the Faculty at Heidelberg and Professor Carl Friedrich, formerly of Heidelberg and now on the faculty at Harvard.

#### Foreign delegates

Among others appearing early in the official delegate section will be representatives of the University of Glasgow, Scotland, founded in 1451; the University of Istanbul, Turkey, founded in 1453 and represented by its rector, Ekrem Serif Egeli; the University of Madrid, Spain, founded in 1509; and the University of San Marcos, Lima, Peru, founded in 1551 and represented by its rector, Luis Alberto Sanchez.

All 10 of the oldest universities in the US will have delegates in the procession, several in the person of the president. With Harvard's President Pusey marching with ceremony principals, the first US institution appearing in the delegate section will be this nation's second oldest school, the College of William and Mary, founded in 1693 and represented by Dean W. Melville Jones.

The remaining eight oldest US schools in the order of their appearance in the line of march are: St. John's College, 1696; Yale University, 1701 and represented by President Kingman Brewster; the University of

Pennsylvania, 1740 and represented by President Gaylord P. Harnwell; Princeton University, 1746 and represented by President Robert F. Goheen; Washington and Lee University, 1749; Columbia University, 1754; Brown University, 1764; Rutgers University, 1766; and Dartmouth College, 1769 and represented by President John Sloan Dickey.

#### Learned societies to attend

Edwin H. Land will be the delegate of the oldest learned society in the procession, the American Academy of Arts and Sciences, founded in Boston in 1780. President James Norman Davis will represent the Royal Society of Edinburgh, Scotland; President-elect Don K. Price, Jr., will be the delegate of the American Association for the Advancement of Science; the American Society of Metals will be represented by its president, Stewart G. Fletcher. President Frederick Burkhardt will represent the American Council of Learned Societies; President Adrian Albert will represent the American Mathematical Society, and President Frederick Seita will represent the National Academy of Sciences.

Other heads of foreign universities present will be: Dr. Friedrich-Wilhelm Gundlach, rector of the Technical University of Berlin; President Claude T. Bissell of the University of Toronto; Dimitrios Koronaios, rector of the Ethnikon Metsovion Polytechnion, Athens, Greece; Rector Fernando Garcia-Roel, Institute of

Technology, Monterrey, Mexico. US representatives

Additional US schools whose official delegates will be their presidents are, in the order of their founding:

Colby College, Colgate University, Amherst College, Kenyon College, Rensselaer Polytechnic Institute, Wheaton College, Mount Holyoke College, Villanova University, College of the Holy Cross, University of Rochester, University of Minnesota, State College at Boston, Tufts University.

Manhattan College, Polytechnic Institute of Brooklyn, Cooper Union, Vassar College, Boston College, University of Massachusetts, Worcester Polytechnic Institute, Virginia Polytechnic Institute, Wellesley College, U. S. Coast Guard Academy, Rhode Island School of Design, Radcliffe College.

Case Institute of Technology, Emerson College, Newark College of Engineering, Georgia Institute of Technology, Barnard College, University of Rhode Island, Lowell Technological Institute, Southeastern Massachusetts Technological Institute.

Clarkson College of Technology, Northeastern University, Simmons College, Carnegie Institute of Technology, The Rockefeller University, Oklahoma City University, Wentworth Institute, Suffolk University, U. S. Naval Postgraduate School.

Connecticut College, Providence College, Babson Institute, Emmanuel College, Texas Techno-

logical College, Regis College, Morison, Sloan Fellows Professor University of Houston, Merrimack College, Brandeis University, and Frank A. March, a senior from Maryville, Tenn., president of the Undergraduate Association, representing stu-

dents.

Bush, Killian to preside

Dr. Vannevar Bush, Honorary Chairman of the Corporation, will present President Johnson for inauguration. Investiture will be conducted by Dr. James R. Killian, Jr., Chairman of the MIT Corporation.

Gov. Volpe to be present

Governor John A. Volpe will present greetings from the Commonwealth of Massachusetts. He succeeds Dr. Others bringing greetings will be Julius A. Stratton, who retired Theodore A. Mangelsdorf, '26, June 30 and now is Chairman of New York, president of the Board of the Ford Foundation Alumni Association; Elting E. tion.

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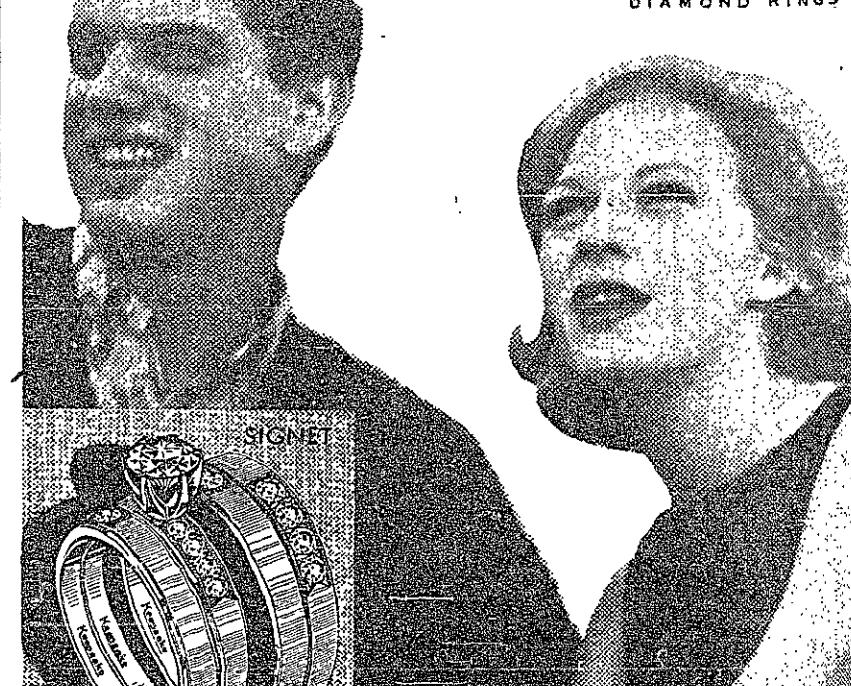
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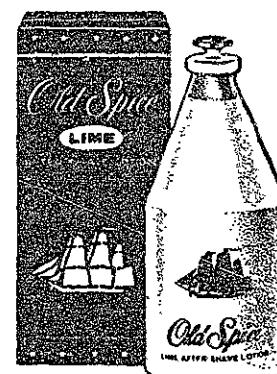
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## Foundation grant to help finance chemistry research and teaching

(Continued from Page 1) to continue its role as a national center for the education of professional chemists. The grant been a fundamental part of the Institute's teaching and research program in science and engineering. The Department of Chemistry provides basic instruction in chemistry to students enrolled in chemical engineering and other engineering departments at MIT concerned with the utilization of chemical science and technology.

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## MIT moves to Cambridge

(Continued from Page 1) contributed at this time was George Eastman who gave a total of \$3.8 million, which could buy a great deal back then. President MacLaurin's unexpected death caught the Institute by surprise in 1920.

President MacLaurin's successor, President Ernest Fox Nichols, President Ernest Fox Nichols was inaugurated on June 8, 1921, but was unable to assume office due to ill health.

The Executive Committee of the Corporation had better luck with its next choice, Samuel Wesley Stratton, who took office in 1923. Like President Pritchett, President S. W. Stratton came to Tech after rescuing the federal government; President Stratton's project was turning the four-employee Bureau of Standards into a scientifically-oriented behemoth. He combined a vast knowledge of scientific procedure with the ability to organize a large body of people.

In 1930, President Stratton became Chairman of the Corporation and was succeeded as president by the distinguished physicist, Karl Taylor Compton. As

Chairman, former President Stratton worked more closely with the Institute's new president than the chairmen had in the past, due to the increasing workload which faced the administration. It was under President Compton that MIT faced the Depression and later produced the technology that helped the Allies win World War II.

Following the precedent set by Samuel Stratton, President Compton also became head of the Corporation following his retirement as President in 1948. His top assistant in administering MIT's war effort and vice-president of the Institute since 1945, Dr. James Rhyne Killian, became the Institute's new president. In his years as MIT's head, Dr. Killian strove to improve that strange subject the well-rounded man knows, the humanities. He also proved himself an effective administrator and fund-raiser. It is perhaps indicative of the Institute's maturity and stature that Dr. Killian is a member of the class of 1926, the first President to be a graduate of Tech.

In 1958, Dr. Killian's continuing absence from the Institute as Special Assistant to President Eisenhower for Science and Technology prompted him to re-

commend to the Corporation that a successor be named. The Corporation, while granting Dr. Killian's request by naming Dr. Julius Stratton, '23, as his successor. In the tradition of Samuel Stratton and Karl T. Compton, however, Dr. Killian was named Chairman of the Corporation, a post he still holds.

Under President Stratton, whose administration is well known to most Tech students, MIT moved ahead in its concern for undergraduates and in improving its physical plant. Over \$40 million dollars was spent on new building during the latter part of President Stratton's administration, quite a bit more than the \$3.8 million that helped move Tech to Cambridge in 1916. Perhaps there is no more fitting tribute to MIT's physicist turned administrator's concern for undergraduates than the familiar Student Center bearing his name.

This, then, is the tradition that MIT's twelfth president becomes a part of. The task he faces is not so much one of building an institution as maintaining MIT's pre-eminence as a center of scientific progress. Still, there is little doubt that President Johnson will add to as well as maintain MIT's proud heritage.

## '70 elects representatives to Institute Fresh Council

As of Wednesday evening, the Class of 1970 had elected fifty-five out of a total of seventy Freshman Councillors. The remainder were elected Thursday and Friday. The Council meets for the first time Sunday at 6:30 pm for elections.

Elected to the council were, from Baker House, Michael Carlin, Paul Carroad, David Dobkin, John Friel, Paul McCreary, and Paul Pelke; from Burton House, John Head, John Dollar, Tom Evans, Dan Cherry, Joel Gottfried, Dennis Haggerty, and John Light, with three more to be elected.

East Campus elected Al Epstein, Jay Jacobson, Frank Cash, Wayne Rudd, Dick Anderson,

Jim Hamerly, Dave Schneider, Dave Little, Walter Stiehl, and Steve Loeb; from McCormick Hall, Gail Fleischman, Karen Wattel, and Pam Whitman. The West Street apartment elected Randy Rettberg, Student House, Bob Berman, and NRSA, Bob Powers and Jack Liu.

Elected from the Fraternities were Phil Byer (AEP), Steven Barr (ATO), Pat Mitchell (BTP), James Rutledge (CP), Ron Shortes (DKE), Donald Saer (DP), Joe Bisatco (DTD), Dave McComb (DU), Phil Cochran (KS), Carl Reed (LCA), Reid Ashe (PBE), Sandy Harlow (PDT), Jeff Mills (PGD).

Also Mike Cullender (PKS), Gary Lazo (PDT), Curt Nehring (PMD), James Duggan (PSK), Dean Silver (PLP), Chris Thurner (SAE), Jim Brasunas (SAM), Nick Mumford (SC), John Confrey (SN), Arnold O'Donnell (SPE), Robert McKinley (TDC), Bob deMarrais (TEP), and Lee Fox (ZPT).

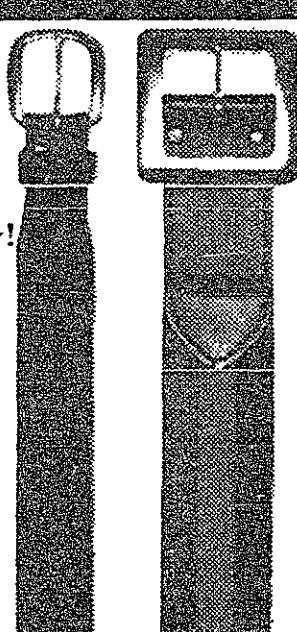
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## The twelfth man

Today's inauguration marks the formal accession of Howard W. Johnson to the position of the twelfth President of the Massachusetts Institute of Technology.

Those who know him are positive that President Johnson will provide the highest quality of leadership during his term of office.

On behalf of The Tech and the undergraduate student body, we would like to congratulate Dr. Johnson and wish his administration the utmost success.

## Correction

Tomorrow night's reception-dance being given for the undergraduate students by President and Mrs. Johnson will begin at 9 pm, not 8 pm as reported Tuesday.

The affair is semi-formal and will be held in the duPont Athletic Center Gymnasium (the Armory) and the Student Center. Lester Lanin's Orchestra will entertain in the Armory, while other groups will play in the Student Center's Sala and Lobdell Room. All undergraduates are urged to attend.

## Look around

This message is addressed to the freshman class of 1970, and to anyone else to whom it may apply. What we have to say concerns your freedom at MIT and how you plan to use it.

We assume, reasonably enough, that you came to MIT to get an education. What we have seen of you already suggests that as a class you will be serious in your studies and in your spare time great advocates of fun. You can certainly expect one of the finest technical educations to be had anywhere in the world: an education that will enable you to step into a seven to ten thousand dollar a year job or into a reputable graduate school. All for a relatively paltry tuition of nineteen hundred dollars a year.

How many of you at this point have thought in detail about what kind of education you want, or about what kind you need? Most of you have a vague preference for a certain field, say physics or electrical engineering. But how many of you have considered what subjects you will take on the side, or what you will do with your spare time? How many have given thought to broadening themselves a little bit, as well as becoming super-specialists in biology or economics? In other words, what will your minor be? In tooling? Hacking? Or what?

We hope that the majority of you are seeking out the whole man, both in yourselves and in your friends. Once these four years have passed there will be little opportunity to round out your education, acquire new interests, or to make up for the less tangible things that you ought to have learned in high school.

The time to think about what kind of adult you want to be is now. Now you have available courses in art, philosophy, and economics, in addition to physics and engineering. Now you may compete on any of the intercollegiate and intramural athletic teams. Now you may participate in any of the other over

# THE TECH

Vol. LXXXVI, No. 35 Oct. 7, 1966

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one-hundred undergraduate extracurricular activities—many of which will definitely meet your own interests and desires. Now you have around you the cultural resources of a historic Boston. You may never encounter such a gold mine of opportunity again.

The grim truth is that MIT cannot give you a broad education, unless you yourself want one and take steps to that effect. Unless you live in a fraternity, there is little of the social pressure that at many other schools works to draw every student into a decent relationship with society. Neither the Institute nor your classmates will come to you. MIT is largely composed of individualists; and if you choose to be the kind of individualist that locks himself in his room, you'll darn well be left there. If you take advantage of your new-found freedom by neglecting your personal appearance, or otherwise rejecting humanity, believe us, humanity will reject you. If you think straight A's alone will bring you back your self-respect, you are sadly mistaken. Just look around.

## Inside Inscomm

Conference discussion develops general approach to problems

By Frank March, UAP

A productive discussion of student views on education was held at the Inscomm conference Sunday. The conference was conceived as a means by which general discussion could be held without the formality of an Inscomm meeting. Rather than attempt to legislate solutions to problems, it was felt that first a general "world-view" approach would be helpful, especially at the beginning of the term.

Other student committees, and perhaps also faculty committees, would do well to examine this concept of having one type of meeting for discussion and another type for action.

Further conferences will be held, dealing with such topics as housing and counseling.

### Pass - Fail

One topic which was discussed at the Inscomm conference was the idea of pass-fail courses. While pass-fail courses now exist at the Institute in the Undergraduate System Program and in freshman seminars, it was felt by many present at the conference that these courses might be extended to other areas.

Two alternatives were proposed: one would allow a student to take one course per term above his normal load on a pass-fail basis; the other would permit one course per term within the normal load to be taken on a pass-fail basis. The advantage of either of these systems would be that students would feel freer to take courses in more diverse fields than at present. Now, fear of a drop in the Student Center.

## Kibitzer

By Mark Bolotin

### North

♦ Q 10 8 6 4

♥ 7 3

♦ 4

♣ J 10 5 4 2

### West

♦ K ♠ J 9 7 5 3 2

♥ Q J 10 8 6 2 ♣ 4

♦ 5 3 ♦ 10 9 8 7 6

♣ K 9 8 7 ♡ A

### South

♦ A

♥ A K 9 5

♦ A K Q J 2

♣ Q 6 3

### East

♦ K ♠ J 9 7 5 3 2

♥ 4 ♠ 10 9 8 7 6

♦ 5 3 ♦ 10 9 8 7 6

♣ K 9 8 7 ♡ A

### Bidding

South West North East

2♦ 2♥ Pass Pass

Double Pass 2♦ Pass

3♦ Pass 3♠ Pass

3NT Pass Pass Pass

Opening lead: ♠Q

Declarer was able to discover in the hand and took advantage of this knowledge to set up abilities of getting the extra tricks by end-plays in the major suits.

Declarer attacked the club suit immediately by leading the Queen from his hand. East took the trick with the Ace and returned the diamond ten. South won and led a low club to the board, which West allowed Dummy to win with the Jack, as East threw a spade.

A small spade was led from the board, so that another club could be led toward dummy in hopes of end-playing West.

However, when West's King fell under declarer's Ace, South paused to recount the opponent's hands. Clubs were known to be 4:1; spades were almost surely 6:1. Hearts were also likely to

(Please turn to Page 8)

## Letters to The Tech

### Duck the draft

To the Editor:

The advertisement you ran in Tuesday's issue concerning '1001 Ways to Beat the Draft,' was disgusting and in very poor taste. The leading MIT newspaper should have higher standards for

its advertisers.

The aforementioned ad does not only downgrade The Tech, but also the students at MIT. Such things should be eliminated from your paper.

Michael P. Perry '67

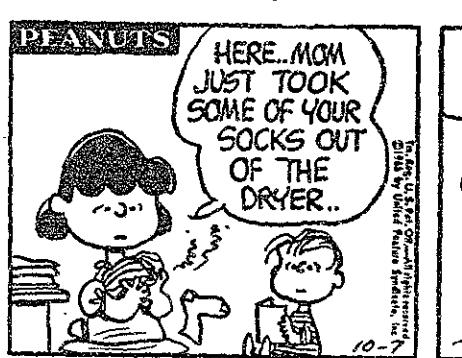
Sit down

To the Editor:

Would benches under the trees in McDermott Court be asking too much? Who knows, perhaps with benches one could even enjoy the court.

Or, is the 'Harvard Commentary' correct when it says that all space at MIT is merely a means of getting from one point to another point?

Michael Narosny '67



## Essay contest on Peace offers \$25,000 first prize

MIT students are eligible to compete for cash prizes in an international essay contest sponsored by more than 20,000 Lions Clubs in more than 130 countries. First prize is a \$25,000 educational or career assistance grant. In addition, more than 2000 local, district, and multiple district prizes bring the total value of awards to \$50,000.

The subject of the essay is Peace. Specifically the purpose of the contest is to develop a formula for world peace. The paper, which should not exceed 5000 words, will be judged on a

percentage basis as follows: 75 percent content, 10 percent organization, 10 percent style and 5 percent mechanics.

The winners of each of the local Lions Club contests will advance to a district contest. District contest winners will advance to multiple district contests. Multiple district winners then advance to world-wide district competition and a chance to compete in the finals.

The 8 semi-finalists will receive \$1000 cash awards.

The age limit is 14 to 22 years of age as of January 15, 1967. The closing date for the contest is December 10, 1966. Eligible MIT students who are interested in the competition should contact the Cambridge Lions Club for additional information.

### EL SIE'S

Noted for the best Sandwiches to eat in or take out.

FAMOUS ROAST BEEF SPECIAL SANDWICH—KNACKWURST—BRATWURST with SAUERKRAUT or POTATO SALAD

"und die feinen Wurstwaren".

71 Mt. Auburn St., Cambridge

**491-2842**

PHIL & CLAUDETTE MARKELL

**SAAB  
STATION WAGON**  
Ice-blue, 4 speed, 28,000 miles.  
Perfect condition. Full service record. Roof & ski rack. Snow tires. Excellent buy at \$1095.  
227-0730; Ext. 371—days

## 2 White House Fellows arrive

Harold P. Smith, Jr. '57 and Walter J. Humann '59 will get an unusual inside view of government at the top level in their new roles as White House Fellows. Richard de Neufville '60 brings a year of the experience back to MIT as he starts work as an assistant professor in the Department of Civil Engineering.

### Experience in government

The White House Fellows Program, established by President Johnson, was the brainchild of John Gardner, Secretary of the Department of Health, Education, and Welfare when he was President of the Carnegie Foundation. It is designed to give young men and women from all professions a year's experience at the highest level of government. Following a month of orientation in September, the eighteen Fellows are assigned to the President's personal staff, the Vice President, or a member of the Cabinet.

During the orientation and throughout the rest of the program the Fellows have seminars with the President, each of the Secretaries, leading members of Congress, many agency heads

## Price describes science as entity of Janus status

(Continued from Page 1)

an attitude of detachment following from a feeling of superiority derived from the search for the pure truth. The other face is the conviction that all pure science can be translated into social benefits.

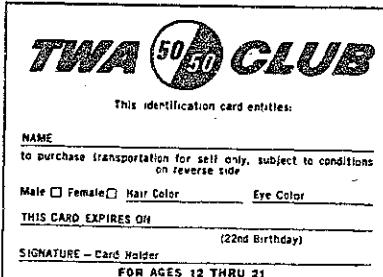
Independence of a scientific body was another of his concern. He noted that an organization loses some of its freedom in accepting funds from such sources as the government, but also noted that this vested interest is a security for science, and that the greatest part of funds for science from the government are used for both pure and applied science.

### Status of science

Science can be corrupted by its involvement with other things, but if it is too withdrawn, the intellectual and moral basis of our society will be weakened, according to Price. He called for a systematic approach to the analysis of the status of science, and cited the church system, also "once discoverers and claimers" of truth as having been in the same dilemma.

In conclusion, Price recommended a reconciliation of the halves of science's split personality, asking that scientists be actively involved in public affairs but at the same time distinguishing between those and private affairs, always seeking for ways to benefit all.

**With this card  
the bookworm turns...  
into an adventurer.**



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**50/50 Club and get  
up to 50% off regular  
Jet Coach fare.**

It's easy. If you're under 22, just fill out an application, buy the \$3.00 ID card—and you're on your way to any TWA city in the U.S. for half fare. Your 50/50 Club fare is good most all year\*, when you fly on a standby basis.

To get your card, call your travel agent, or your nearest TWA office.

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Nationwide  
Worldwide  
depend on



\*Except: Nov. 23 and 27, Dec. 15 thru 24, Jan. 2, 3, 4.

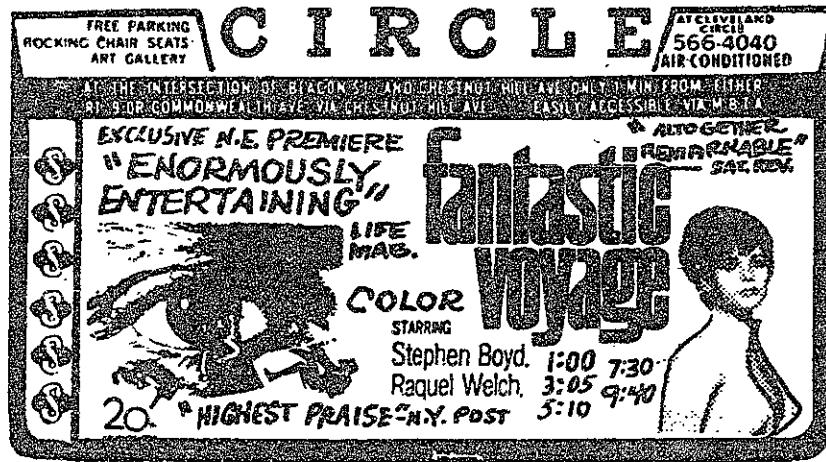
**FRED DONNELLY**  
(B.S.C.E.) of the Bethlehem Steel Loop Course knows where the action is. He's a field engineer for our Fabricated Steel Construction Division, one of the nation's greatest building organizations.

Join the action. First step: pick up a copy of "Careers with Bethlehem Steel and the Loop Course" at your placement office. Then sign up for a campus interview. Our 1967 Loop Class has openings for technical and non-technical graduates (and post-grads) for careers in steel operations, research, sales, mining, accounting, and other activities.

An Equal Opportunity Employer in the Plans for Progress Program

**BETHLEHEM  
STEEL**





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**Simeone's**  
ITALIAN-AMERICAN RESTAURANT  
Choice Liquors and Imported Beers  
21 BROOKLINE STREET, CAMBRIDGE — Tel. EL 4-9569  
(at Central Square)

★ Open Every Night 'til Midnight — Free Parking  
★ Ask about Student Discount Books

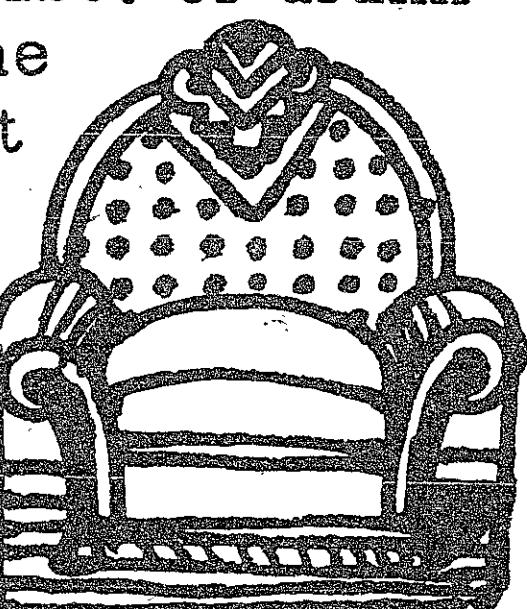
VISA

WHO  
SAID  
13  
IS  
UNLUCKY  
?  
COME TO THE COOP  
ON OCT. 13th

Don't just sit there,  
Wallace Middendorp.  
Make a noise. Or drink  
Sprite, the  
noisy soft  
drink.

What did you do  
when Joe (Boxcar)  
Brkczpmuj was  
kicked off the  
football team just  
because he flunked  
six out of four of  
his majors? What  
did you do, Wallace  
Middendorp?

And when the  
school newspaper's  
editors resigned in  
protest because The Chancellor wouldn't allow the  
publication of certain salacious portions of  
"Night In a Girl's Dormitory" you just sat, didn't you?



WALLACE MIDDENDORP SAT HERE

You've made a mockery of your  
life, Wallace Middendorp!  
You're a vegetable.

Protest, Wallace Middendorp.  
Take a stand. Make a noise!  
Or drink Sprite, the noisy soft  
drink.

Open a bottle of Sprite at  
the next campus speak-out. Let  
it fizz and bubble to the  
masses.

Let its lusty carbonation  
echo through the halls of ivy.  
Let its tart, tingling  
exuberance infect the crowd  
with excitement.

Do these things, Wallace  
Middendorp. Do these things,  
and what big corporation is  
going to hire you?



## Movies . . .

### 'Endless Summer' is a surf spectacle

By Sherry Guimon

For an experienced surfer, an amateur wave watcher, or even a land-locked lubber, 'The Endless Summer' is certainly an unforgettable movie-going experience. The film starts out like a Pan Am travelogue. The narrative is homey at best and often, in the true surfing film style, a bit corny, but the photography is fantastic.

'The Endless Summer' follows the adventures of two surfers who shun the crowds and encroaching winter of Southern California to follow the summer around the globe and seek out the world's best surf spots. Their first stop is Senegal, West Africa, where they surf right in front of their hotel under the watchful eyes of curious natives perched on the rocks. Traveling by plane, car, and boat, the surfers proceed down the west coast of Africa to Capetown, South Africa, and

then up the other side.

#### Perfect wave

This part of the movie is a series of shots of wave after wave and beautiful scenery, with natives and African wild life for variety. Part way up the east coast of Africa, the surfers find Cape St. Francis, where they ride the "perfect wave." A surfer's dream, these waves maintain their perfect shape, never "sectioning," or breaking at more than one point on the wave.

From Africa, the action moves to Australia and New Zealand, and from there to Tahiti. In Tahiti, where there supposedly "aren't any waves," the surfers find waves which, because of the steep slope of the beach, go both in and out. One can surf either way.

#### Famous surf

The journey ends in Hawaii, the most famous of all surfing areas. There are shots of Waimea Bay during the winter, when the waves often exceed thirty feet. Also shown are sequences of the Banzai pipeline, surf so big, on such a shallow, rocky bottom, that many expert surfers consider it suicidal to surf there.

The surfers in the movie are Mike Hynson and Robert August, both native Californians. However, the movie is really about surfing in general, and many well-known surfers are shown riding a wave.

The real stars of the film are not the surfers but the waves themselves. Most of the photography is done with a telephoto lens that almost takes the viewer right down the slope of the wave. There are also shots from the water, including an inside view of a wipe-out, and even one where the camera is mounted on the nose of the board.

For someone familiar with surfing, this film is a chance to see some really amazing waves. 'The Endless Summer' will show everyone else the fascination and excitement of a sport that is catching on in coastal areas all over the world.

## New books

### Expose of American MD's and the UN to be released

'Virgil Thomson' by Virgil Thomson. As composer, music critic, author, and international figure, Virgil Thomson has been a colorful part of the musical and literary scene for the past half century. This account of his life from childhood in Kansas City to Harvard, and then notoriety in New York and Paris, will be released next week by Alfred Knopf, publisher of Borzoi Books.

lighter descriptions of seductive blondes in the delegates' lounge and the little-known 'cloak and dagger' section. The author is a Brazilian who has been United Nations undersecretary for public information. This book will be published next week by Alfred Knopf of Borzoi Books.

\* \* \*

'The Play Within the Play: The Inside Story of the UN' by Hernane Tavares de Sa— is a sharp expose of what really goes on in the UN, both in its policy-making and in its day-to-day work. The author balances criticism of UN failures around the world and of the weaknesses of the three idolized Secretaries General with

'The Doctors,' by Martin L. Gross— charges that the typical American doctor is a poor diagnostician who misses or misdiagnoses four in every five ailments, and is responsible for between 100,000 and 200,000 deaths each year — many of them needless — as a result of erroneous, incompetent or badly calculated treatment. The author is presently a member of the faculty of the New School for Social Research in New York City. He spent over three years researching this analysis of the American doctor and his practice of medicine. The book was published by Random House last week.

\* \* \*

Hingham Mothers Club  
presents  
Jackie Washington in Concert  
Friday, Oct. 14, 8:11 p.m.  
The Surf Ballroom, Nantasket  
Students \$2.00 Adults \$2.50  
Tickets available at door  
or call 749-9123

Sunday Evening October 9 at 8 O'clock  
**SAUL D. ALINSKY**  
"The Poverty Issue: Class War  
or Enlightened Democracy?"  
**FORD HALL FORUM**  
JORDAN HALL — Gainsboro St. cor. Huntington Ave. — BOSTON  
DOORS OPEN 7:45 P.M.  
EVERYBODY WELCOME

**PRE-SEASON  
SKI SALE**  
25%-50% and more off  
Skiis, Boots, Poles, Pants, Parkas

Franchised items not included in this sale.

**Tennis & Squash Shop**  
67 Mt. Auburn Street, Cambridge

TR 6-5417

Sale ends Saturday, Oct. 8

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For someone familiar with surfing, this film is a chance to see some really amazing waves. 'The Endless Summer' will show everyone else the fascination and excitement of a sport that is catching on in coastal areas all over the world.

## Movies & Theatres

**MOVIES**  
Astor — 'Who's Afraid of Virginia Woolf?' 10:15, 12:30, 2:50, 5:10, 7:25, 9:45.  
Brattle — '8½,' 3, 5:15, 7:30, 9:45.  
Beacon Hill — 'The Russians are Coming,' 12:45, 3, 5:15, 7:30, 9:45.  
Boston Cinemas — 'Russian Adventure,' 8:30; Wed., Sat., Sun. 2, Sun. 5.  
Cinema Kenmore Sq. — 'Dear John,' 1:30, 3:30, 5:30, 7:35, 9:40.  
Cleveland Circle — 'Fantastic Voyage,' 1, 3:05, 5:10, 7:20, 9:30.  
Esquire — 'Love and Marriage,' 7:30, 9:30.  
Exeter — 'Ninotchka,' 2, 3:45, 5:40, 7:30, 9:20.  
Gary — 'The Sound of Music,' 2, 8:30, Sun. 2, 7:30.  
Harvard Sq. — 'Morgan,' 3:10, 6:30, 9:50; 'Web of Fear,' 1:35, 4:55, 8:15.  
Music Hall — 'Goldfinger,' 10, 2, 6, 10; 'Dr. No,' 12, 4, 8:15.  
Orpheum — 'Ambush Bay.'  
Paramount — 'Mr. Buddwing,' 1:20, 3:20, 5:15, 7:15, 9:10.  
Paris — 'A Man and a Woman,' 2, 4, 6, 8, 10.  
Park Sq. Cinema — 'Mandrake,' Savoy — 'Lorna,' 1:35, 6:40; 'Mud Honey,' 3, 8:15; 'Fantomas,' 4:55, 10.  
Saxon — 'Dr. Zhivago,' 8:15; Wed., Sat., 2, 8:15; Sun. 2, 7:30.  
Symphony I — 'Jules and Jim,' and 'The Silence.'  
Uptown — 'The Oscar,' 1:30, 5:25, 9:25; 'The Tenth Victim,' 3:45, 7:45.  
West End — 'The Shop on Main Street,' 1:55, 4:20, 6:40, 8:55.  
**THEATRES**  
Charles Playhouse — 'Love for Love,' thru Oct. 30.  
Colonial Theater — 'I Do, I Do,' thru Oct. 15.  
Theatre Company of Boston — 'Waiting for Godot,' opening Sat. Wilbur — 'At the Drop of Another Hat,' thru Oct. 8.

### Stellar evolution talk for compass seminar

A talk on the "relaxation oscillations in late type stars and evolution into the white dwarf state" will be given by Doctor William Rose of Princeton University Observatory next Tuesday.

Sponsored by the Campass Seminar Program, this discussion will take place in room 54-100 at 4:00 pm. Tea will be served in the Faculty Lounge, Room 54-923, at 3:30 pm. All are welcome to attend.

**HARVARD SQ. UN 4-6890**  
New Russian film of  
**"HAMLET"**  
Directed by Kozintsev  
Translated by Pasternak  
Music by Shostakovich  
2:15, 5:15, 8:15

**BRATTLE SQ. TR 6-4321**  
"The Red and the Black"  
5:15, 7:30, 9:45  
Saturday matines 3:00  
Sunday: "L'AVVENTURA"  
2:00, 4:30, 7:00, 9:30

# Talking Rock

By Don Davis

The McCoys and Pandoras entertained Saturday at a very entertaining beer blast sponsored by the sophomore class, led by Mary Swift. The Pandoras, who are not the original group of Simons girls by that name, were popular with their versions of rock 'n' roll standards. They were formed last spring when Boston radio stations solicited for talented girls to form a rock group which would eventually play at Lake Tahoe and Las Vegas. Their first single, 'I Could Write a Book,' should be released shortly.

### The Monkees

Similarly the Monkees, of 'Last Train to Clarksville' and television fame, were formed by advertisements all over the US for people to fill their role. 7500 applied and they chose a California folk singer, a Greenwich Village folk singer, the star of the 'Circus Boy' television show, and someone who appeared in 'Oliver!' on Broadway.

### McCoys' Beginning

The McCoys, on the other hand, are real, although they did not get their name from the television show. They range in age from 16 to 20 and have been together as a group for four years. Before June, 1965, they were just a popular Dayton dance group who had had several regional singles. Then they were playing on a show with the Strangeloves, who had a mediocre hit at the time with 'I Want Candy.' The Strangeloves made their greatest contribution to pop music by asking the McCoys to record 'Hang On Sloopy' on their label, Bang. 'Sloopy' later became number one nationally during folk-rock's peak period, when every other song had a message. It was released one week after Little Caesar and the Consuls' rhythm and blues recording of the same song, although the McCoys had no prior knowledge of the version by the Canadian group.

### New single

The McCoys' new single, 'Don't

Worry Mother, Your Son's Heart is Pure,' marks a complete change of style from their first five singles, all straight rock songs with simple catchy lyrics. It is the first to be written by the boys themselves and adds an Oriental sound to a hard rock beat. Climbing the Billboard charts rapidly, now at number 70, it employs a harpsichord, timpani, and Chinese gong in addition to standard rock instruments.

### Psychedelic music

One of their most popular numbers at the dance was 'Gloria,' with a long section of psychedelic music, music designed to induce an LSD-type reaction in those properly trained. It is basically highly-amplified atonal drone music with jazz-like improvisations over the drone. None of the supposedly - psychedelic commercial rock 'n' roll records have recreated the real thing as performed at San Francisco discotheques, although the instrumental parts in the Byrds' 'Eight Miles High,' the Magic Mushrooms' 'It's A Happening,' and Jefferson Airplane's 'Let Me In' have come closest. The Airplane is very popular on the West Coast and their album, number 126 in Billboard, is beginning to take off in the East. However, 'acid rock' requires the volume and atmosphere of a live setting for effectiveness and is commercial only to a select audience.

### Raga rock

The psychedelic craze was also the spark for raga-rock, the Indian influence in pop music, which I discussed two weeks ago. Classical Indian music is closer to psychedelic music than any previous musical form in that it employs a tamboura playing a monotonic drone with the sitar improvising ragas, or melodies, over it. This has led an increasing number of groups to employ a sitar or tune up their 12-string guitars to a sitar sound.

## Making the Scene

S	M	T	W	T	F	S
					7	8
9	10	11	12	13	14	15
16	17	18	19	20		

**Friday, October 7**  
 10:30 AM Inauguration Ceremony of Howard Johnson, Rockwell Cage and Kresge Auditorium.  
 5:00 PM MIT Science Fiction Society Meeting, Room 1-236.  
 6:00 PM LSC Movie: The Good Soldier Schweik. Admission: 50c. Room 26-100.  
 8:00 PM MIT College Life Meeting. Speaker: Dr. Armand Nicholi, Harvard psychiatrist, Harvard University, Adams House.  
 8:00 PM Ukrainian Student Club: First meeting. Student Center, Room 473.  
 8:30 PM MIT Baton Society: Coltrane Concert. Kresge Auditorium.  
 9:30 PM LSC Movie. **Saturday, October 8**  
 1:00 PM Judo Instruction. Dupont Athletic Center, Exercise Room.  
 1:00 PM Strategic Games Society. Student Center, Room 473.  
 1:00 PM Chess Club Meeting. Student Center, Room 491.  
 5:00 PM Outing Club & Folk Dance Group present the Pinewoods Morris Men, East Campus, Lawn.  
 7:00 PM LSC Movie: Where the Spies Are. Admission: 50c. Room 26-100.  
 8:00 PM Undergraduate Reception & Dance in honor of the inauguration of Howard Johnson. Armory.  
 9:30 PM LSC Movie. **Sunday, October 9**  
 1:00 PM Chess Club. Student Center, Room 491.  
 1:15 PM MIT Film Society: An introduction To Filmmaking. Refreshments. Admission: 50c for non-members. Student Center, Room 407.  
 1:30 PM MIT Concert Band in Concert, Kresge Plaza (in case of rain: Student Center, Sala de Puerto Rico).  
 2:30 PM SCEP Meeting. Student Center, Room 400.  
 3:00 PM Chinese Students Club: Choral Rehearsal. Student Center, Room 473.  
 7:30 PM MIT Folk Dance Group. Student Center, Room 491.  
 8:00 PM LSC Classic Movie: Never Give A Sucker an Even Break. Admission: 50c, Room 10-250.

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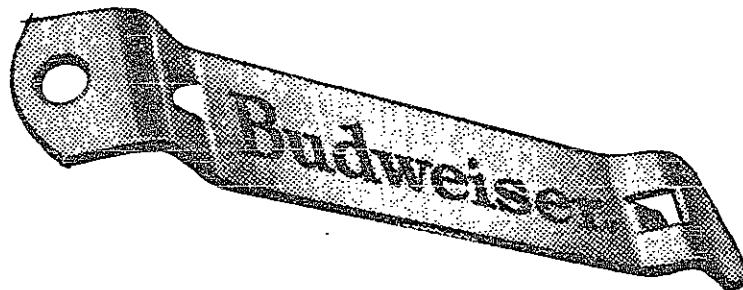
Apply to Mr. Charles—864-7575

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## THE LECTURE SERIES COMMITTEE PRESENTS

Friday, Oct. 7

### I LIKE SCHWEIK

"Schweik is lovable" . . . "a film that leaves an impulse to hug it affectionately as you leave the theater."

**The Good Soldier Schweik** A LIONEX FILMS RELEASE

# SCHWEIK

Starring Heinz (Captain from Kopenick) Ruhmann

Both shows in 26-100 at 7:00 and 9:30

On Sunday, Oct. 9  
**NEVER GIVE A SUCKER AN EVEN BREAK**

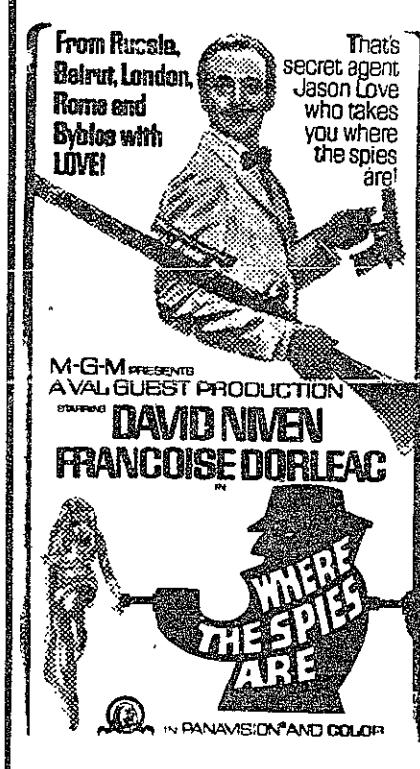
10-250 8:00

October Lecturer:

# PIERRE SALINGER

**ADMISSION  
50c  
MIT  
ID  
REQUIRED**

Saturday, Oct. 8



## UNICORN COFFEE HOUSE PRESENTS IN CONCERT

### BACK BAY THEATRE

Friday, October 14th, 8:30 PM

### THE WORLD OF CHARLES AZNAVOUR

Tickets: \$2, \$3, \$4, \$5

FRIDAY, OCT. 14 8:30 P.M.

Commonwealth Armory, Boston  
(Next to Boston University)

### Mama's and the Papa's

Tickets: \$2.75, \$3.50, \$4.75

THURSDAY, OCT. 20 8:00 P.M.

### BACK BAY THEATRE, BOSTON

### Righteous Brothers

Tickets: \$3.50, \$4.50, \$5.50

# Kibitzer . . .

(Continued from Page 4)

be 6-1, because West had bid the opponents' distribution early. vey of the situation led South to believe that his eighth and ninth tricks could probably be picked up in the minor suits with pos-unusual end play in which he gave up one trick, but received three in return.

The opening heart lead was won by declarer's Ace. A quick sur-suit at the two level and East didn't return a heart at trick three. Consequently, East had five of the seven outstanding hearts.

It was now simple for declarer to cash three diamonds and throw East in with the last diamond. East had nothing left but spades. His forced lead into dummy's Queen-ten of spades gave declarer two tricks and set up the following squeeze on West.

North
♦ Q 10
♥ 3
♣ 10
West
♥ Q J
♣ K 7
East
♦ J 9 7 5
South
♥ K 9 5
♣ 6

North won two spade tricks after East's spade lead. West could discard a club, but on the second spade he was forced to yield a control in either hearts or clubs for declarer's eleventh trick.

An unusual feature about this hand is that very bad defense, such as East discarding a heart at trick four or West winning the second club trick and returning a club, will still allow declarer to make his contract, but will hold him to one overtrick.

## The Bulletin Board

Compiled by the Public Relations Committee of Incomm, The Bulletin Board is a semi-weekly service of the PRC and The Tech.

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No School Today  
10:30 am. — Inauguration Ceremony of Howard Johnson. Rockwell Cage and Kresge Auditorium.  
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9:30 pm. — LSC Movie.

### Advertisement

The Bible says: These six things doth the Lord hate; yea, seven: a proud look, a lying tongue, hands that shed innocent blood, an heart that deviseth wicked imagination, feet that be swift in running to mischief, a false witness that speaketh lies, and he that soweth discord among brethren. Proverbs 6: 16, 17, 18, 19.

**Sale: 1960 M.B. 190SL CLASSIC**  
with hard & convertible tops, in perfect condition, \$1995.  
Call any time — 364-9425

# Twenty-two mixers planned

By Steve Gregory

This weekend offers a full schedule of mixers for the Tech man interested in broadening his social sphere. Things get off to a fast start with no less than twenty-two mixers tonight.

After attending the inauguration ceremony you may wish to head for Northampton, Mass., where Smith College is planning a big evening.

Seventeen of the 34 dorms are planning separate mixers. Invitations are necessary, so give them a call and reserve yours, but chances are that Techmen will not be turned away.

## HEALTHY MALE COLLEGE STUDENTS Wanted as paid participants (\$20 each) in research concerned with factors influencing onset of illness.

To qualify, students must never have had any allergies, and within the past year must have been free of any infections, colds, sore throats, etc., which required medication.

To volunteer or obtain further information, call Dr. Jacobs at the B.U. Medical Center, 262-1400, extension 692, weekdays, 9-5.



1. How come you've been getting such swinging computer dates?

I guess you haven't seen my personality questionnaire.



3. "Play the ocarina."



4. "Like cucumber sandwiches."



5. You mean to tell me those great-looking girls go for these things?

It's the last item that really clinches it.

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6. "Stepping into swell job with Equitable Life. Good pay. Fascinating work. Plenty of chance to move up."

I think I'll see Jane tonight; Susie tomorrow and Fran the day after.

Closer to home, Boston University is having two separate mixers this evening. Both require invitations, so contact the social chairman of The Towers or Charlesgate Hall (where the events will be held) for information. Both will have live music and begin at 8 pm. Dress will be jacket and tie.

For those interested in exploring new territory, there will be a mixer at 8 pm this evening at Cardinal Cushing College. The scene is Latare Hall, the price \$1, the music live and the dress jacket and tie. To get there take a

leisurely MBTA ride to Cleveland Circle and ask a native for directions.

Also tonight, the Harvard Business School is sponsoring a mixer at Carey Cage (near Harvard Stadium). This gets under way at 8 pm also.

Fisher Junior College is having a mixer 8 pm Saturday at 116 Beacon Street. There will be live music. The cost is 98c, and, as usual, jacket and tie is in order.

For those who still haven't had enough, Sunday evening at 8 pm there will be a mixer at Tilton Hall at Jackson College in Medford. The price is only 25c and a band will be provided.

Graduate students get into the swing of things tonight with a mixer at Ashdown House. This particular function will cost one dollar. The festivities are scheduled for 8 pm.

All in all that's twenty-two Friday mixers—of course, seventeen are at one school—but twenty-two is still yields pretty good chances for a good time tonight.

If you can't make the scene this weekend, or are planning ahead, there will be a mixer Friday, October 14 at the Sala de Puerto Rico, sponsored by Burton House. It begins at 8 pm, and live entertainment is planned.

The Social Beaver contains all the phone numbers you will need to contact the social chairmen for invitations and details. The only exception is Cardinal Cushing College, which is not listed in the Social Beaver. Fortunately for us all, however, it's listed alphabetically in the Boston phone book.

# College World

By Karen Wattei

How does a class become part of a school? Members of the class of 1970 at the University of New Hampshire had to climb a greased 31-foot pole to rescue a "70" beanie. MIT frosh, consider yourselves lucky.

Nobody would claim a sign prohibiting cyclists from riding across the lower level of the Washington Ave. bridge, according to the Minnesota Daily. They reported that University co-eds were stopped from doing so one day, and that another person was given a ticket. The sign was said to be illegal, however, and those who received tickets were told to send them in and they would be dismissed.

### Sign story hoax

Each installment of the serially-run story got better and better. The third day the byline was taken from the story as the staff confessed that they "may have been used." The story was "a hoax perpetrated by a crank caller," confessed the first line of the article.

### We want silk

As cries of "We want silk" reached the inhabitants of the Colby College girls' dorms, the Frosh men, backed by upper-classmen, were showered with water, dyes, and crazy foam. They persisted, however. They realized that it was not one of the privileges covered by their \$3100 plus, but they wanted it anyway. And they got it. Amidst the liquid barrage a drift of nylon, lace, and

cotton appeared. And the men disappeared. Back to their dorms they went, to decorate their walls with their booty. The prize catch, it was reported, was a 38C, while the low haul was a 28AA. The last lines of the article: "The owner of the 38C may claim her garment at 315 Averill Hall. The owner of the 28AA need not bother to appear."

### Colorado raid on troupe

The Denver cops refused to go on stage to arrest the controversial San Francisco Mime Troupe, so the troupe obliged their audience by parading down the aisles instead, the Colorado Daily reported. Part of the audience joined them in protest.

This was not the first time the Troupe was stopped during a show, but it is the first time that they were arrested, says the Colorado Daily. They were charged with obscenity.

### No water

A Pembroke student may sign out to a man's apartment outside but not inside the Providence area, if that is where she may be most easily reached—and provided she does not actually spend the night there, Dean Rosemary Pierrel informed a Pembroke newspaper reporter. "You can hang your clothes on a hickory limb but don't go near the water?"

## Stratton art collection shown in student center

The Catherine N. Stratton Collection of Graphic Arts will go on exhibition today in the second floor reading room of the Student Center. The exhibition will last until Feb. 10.



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# Computer hacks tap US secrets

By Richard Stern

Computer users across the country are feeling the effects of one of MIT's newer breeds, the "computer hacks."

Tech's many computer facilities have proved an easy target for many 6.47 (nee 6.41, 6.45) graduates and others. For example, the PDP-1 computer system is readily available to qualified students. One ingenious Techman, it's believed, managed to tap the national government data line that used to be attached to the machine. This enabled him to transcribe confidential information straight from such installations as the SAC base in Omaha, Nebraska. These operations also had the effect of jamming the government's own lines, causing them considerable annoyance.

**Space War**

The versatile PDP-1 system has also lent itself to other uses. For example, "space war" is an exciting and stimulating game for two people and a \$500,000 computer. The PDP-1, when programmed properly, will read out a display of two spaceships, each maneuvering in space, trying to torpedo the other ship. Space war addicts had been known to play for days on end until the Institute clamped down and confiscated the all-important control console.

MIT's Project MAC (Multiple Access Computer/Machine Aided Cognition) is a prime target for hacks. This system can be shared by users all over the world and user time is therefore at a premium. This also means that pranks may be printed out at thousands of various locations all over the globe. Although the sys-

tem code is highly confidential it has been broken accidentally by students from time to time.

**Pranks and more pranks**

A team of math students wired a computer so that one night all the telephones in one large building rang simultaneously. The switchboard operator, seeing every plug lit, believed there was a fire and called the fire department.

Pranks such as these have far reaching implications, and are a source of concern to many top firms. For example, it would be easy for a computer operator to embezzle money from a bank because there would be no written records, no duplicate slips, or other traces of the "transaction." The embezzler could program a withdrawal and then replace it, programming a correction.

The most crucial problem of the situation is that the computer revolution will eliminate most written records. The com-

puters can be tampered with and their memory is not infallible. As computer use becomes increasingly widespread, hacking of the quick buck type will no doubt be stepped up along with the MIT brand. Computer firms, communications lawyers, and the Federal Bar Association may soon be working overtime to devise new controls on computer users.

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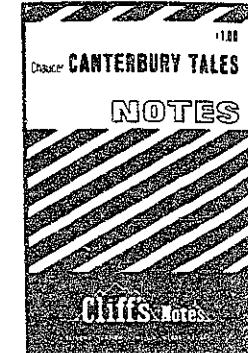
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## 2 graduate students in XVII win Woodrow Wilson Fellowships

Mrs. Deborah Rosenfeld Hensler and Mrs. Noralou Preston Roos, both MIT graduate students, and both doctoral candidates in political science, are recent winners of Woodrow Wilson Dissertation Fellowships.

Mrs. Hensler held her fellowship this summer while she began writing her thesis on "The Role of the Mobile Middle-Class in Local Politics."

Mrs. Roos, who spent the summer of 1965 in Turkey on a research project for the Agency on International Development, will develop her thesis during the

coming year on the changing patterns in Turkish Administration.

An MIT alumnus, Frank S. Levy '63, now a graduate student of Economics at Yale University, has also won a Dissertation Fellowship. His topic will be "What are the Dollars and Cents Cost of Integrating Boston's Elementary Schools?"

Fellowships are awarded on the basis of the best theses proposals presented by the most highly qualified candidates as compared to others in the same field of study.

The Woodrow Wilson National Fellowship Foundation, operating under the grants from the Ford Foundation, has as its aim the encouragement and support of potential college teachers.

## Machines vs. Man

### Computers

By Paul Johnston

According to Dr. Marvin L. Minsky, Professor of Electrical Engineering and a director of the artificial intelligence groups at MIT, there is a real possibility that computers may one day become smarter than human beings.

In an article appearing in last month's issue of 'Scientific American,' Dr. Minsky states that computers are already being used to set up goals, make plans, consider hypotheses, and recognize relationships. He predicts that machines will soon become smarter than human beings in these intellectual areas which are usually regarded as unique to man, and indeed work is now under way by computer scientists to make the machines display all of the phenomena associated with the human intellect.

#### Meet intellectual challenge

Examples of computer programs now in existence, which enable the machines to respond to intellectual challenges in much the same way as men do, illustrate how bright the computers

### may surpass humans

have become, he said.

Some machines have been programmed to win consistently at checkers, while others can solve algebraic word problems better than the average person. Another machine has been designed so that it now scores at the tenth grade level on a college entrance exam.

Minsky suggests that it will eventually become possible for these machines, by using analogical reasoning, to apply the experience they have gained from solving one kind of problem to the solution of different problems.

Computers are also being designed so that when they run into an extremely difficult problem that they are not able to solve all at once, they will break it up into a series of solvable smaller problems.

#### Self-improvement

Dr. Minsky suggests another possibility: a computer might be built that would be capable of improving itself. Such a machine would have to have an understanding of its own problem-solving process, and some ability to recognize an improvement when it found one.

"As the machine improves both mind.

itself and its model of itself, we shall begin to see all the phenomena associated with the terms 'consciousness,' 'intuition,' and 'intelligence' itself."

"Whether or not we could control the rapidly improving machines, assuming that we would want to," Minsky says, "the nature of our activities and aspirations would be changed utterly by the presence on earth of intellectually superior beings."

#### Reason like man

Computers are made to reason in much the same way human beings reason, that is, by using analogy, looking for similarities between two different things that may reveal a hidden relationship. The college entrance exam performed by the computer was based on analogical reasoning.

"Although the computer's ability in this respect compares favorably with the ability of human beings," Dr. Minsky says, "it can in no other respect pretend to approach the scope and versatility of human intelligence. Yet in its limited way it does display qualities we usually think of as requiring 'intuition,' 'taste' or other subjective operations of the

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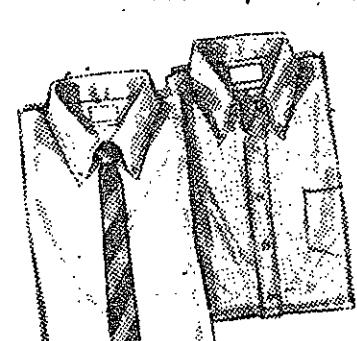
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### ROTC's first Buddy Day conducted at Fort Devens

MIT's first Army ROTC Buddy Day was highlighted by a practice session on the Fort Devens rifle range. Saturday's event was held to introduce freshmen and

### Bridge Club announces Master Point winners

By Rich Rosen

The MIT Bridge Club held its Master Point game for October Saturday. North-South winners were as follows: 1. Dick Friedman '65 and Bob Lafleur '68; 2. Rose Hurvitz and Wayne Goodrich; 3. Jeff Passell '69 and John Hrones '69; 4. Joe Viola '69 and Bill Horton '68.

East-West winners were: 1. Bob Cohen '66 and Howard Radin '69; 2. Fred Ciaramaglia '69 and Alan Kotok; 3. Phil Selwin, grad, and Julius Rebek, grad; 4. Norman King '68 and Robert Swift.

The next tournament will be the Individual Club Championship Saturday, October 15, at 1 pm in room 407 of the Student Center.

non-ROTC cadets to Army operations.

After breakfast the seventy Army ROTC cadets boarded buses for Fort Devens, which is located near Ayer, Mass. There the students were given a tour of the post's Consolidated Maintenance Facility, a single system which provides all parts and repairs for Army units throughout New England.

Then the students toured the "train-fire" rifle range, which attempts to simulate actual battle conditions for the riflemen. Each cadet positioned himself in a foxhole with an M-14 rifle, and attempted to hit a series of silhouette targets at varying distances, each of which was visible for seven seconds.

Following lunch, a lecture and demonstration was given on the construction and maintenance of the M-14 rifle, the Army's basic infantry weapon. This concluded the day's rain-shortened program. A combat patrol and the physical combat proficiency test, originally planned for the afternoon are now being re-scheduled for a future trip.

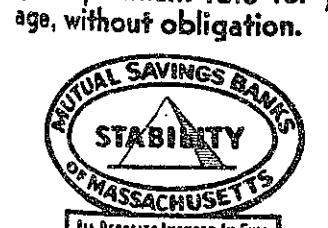
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